

ABSTRACT

The invention concerns a method of culturing, propagating and replicating in vitro viruses of the 5 *Togaviridae* and *Flaviviridae* families which consists in: providing at least a fraction of LVP's obtained from serum or plasma of a patient infected with a least a virus of the *Togaviridae* and *Flaviviridae* families; contacting said fraction, for a predetermined time 10 interval in an appropriate culture medium, with permissive cells having an endocytosis path relayed by at least one receptor of the lipoproteins and modulated inter alia by an activating agent selected among an unsaturated fatty acid or an unsaturated fatty acid 15 derivative comprising 16 to 20 carbon atoms or their mixture. The invention also concerns the uses of viral particles and polypeptides obtained by said method.